Claims:

- A protein or its molecular variant that can induce an allergic reaction in persons sensitized to the protein.
- 5 2. A protein or its molecular variant as claimed in claim 1 characterized in that the DNA sequence encoding the protein or a portion of the protein is as follows:
- DNA: acgcgggggcgttaacacttggtttttgcttccacttcatggagttccctq 51 5 102 DNA: ccctagcttatgcttccgaaacctgtgattttccagcaatctttaacttcg 153 10 DNA: gcgactccaattccgataccggtggcaaggcagctgccttttatcctctta 204 -1----1----1----1----1----1----1----1 DNA: accetecttatggagagactttettteacaggtegacaggaaggtactetg 255 1---1---1---1 15 DNA: atggaaggctcataatagattttatcgccgagagtttcaatctcccatatc 306 ---1---1---1---1---1---1---1---1-DNA: tgagtccatatcttagttccctgggaagcaacttcaaacatggtgcagatt 357 ---1---1---1---1---1---1---1---1---1---1---DNA: ttgccacagcaggatccaccattaaactaccaactactattatacctgctc 408 20 DNA: atggtggatttagtccattctaccttgatgtccaatattcgcaattccggc 459 -1---1---1---1---1---1---1 DNA: aattcatacccagatcacagtttatcagggaaactggaggcatatttgctg 510 1----1----1----1 25 DNA: aattggtgcccgaggaatattattttgagaaagctttatacacattcgata 561 ---1---1---1---1---1---1---1---1---1---1-DNA: ttggtcaaaatgatcttacagaaggattcttgaacttaactgtggaagaag 612 DNA: tgaatgcaactgtccctgatcttgtgaatagcttctcagcaaacgttaaga 663 30 --1---1---1---1---1---1---1---1---1---1

	DNA:	aaatatacgatttgggagctagaacattttggattcacaacacaggaccaa	714
	DNA:	ttggttgtctttcattcattttaacgtattttccctgggcagaaaaggata	765
5	DNA:	gtgcaggctgtgcaaaagcttacaatgaagttgctcagcattttaatcaca	816
	DNA:	agttgaaggagatcgttgctcaactcaggaaggatttgcctttagctacat	867
10	DNA:	tcgtccacgttgacatctattctgtcaagtattctttattcagtgagccag	918
	DNA:	aaaaacacggtttcgagtttccacttataacatgttgtggctacggaggaa	969
	DNA:	agtacaattttagtgttactgctccatgtggagatacagttacagcagacg	1020
15	DNA:	acggtaccaaaatagttgtgggttcatgtgcttgcccttcagttcgagtaa	1071
	DNA:	attgggatggagctcactacactgaagctgccaatgaatatttttcgacc	1122
20	DNA:	agatttetacaggageettetetgateeeetgtteeattgaatatggeat	1173
	DNA:	gtcataaaactgaatcattgaggacattagcctctgtataggttatatgaa -111111	1224
	DNA:	agtgctttgctgaaagcccgctaataaaatgaggaataataataaatgaga llll	1275
25	DNA:	aaccattgattatgttaggattcacttggtttctatcataataatctatct	1326
	DNA:	gttgtatatacaacagttgtatgaaatagtttcttgtaataaagacttgtclllllll	1377
	DNA:	tttctccggtttcccta 1394	
30	3.	A protein or its molecular variant as claim claim 1 or 2 characterized in that the proteits molecular variant has the following	
		properties:	
		a. has a molecular weight of about	42,000

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has an isoelectric point of about 4.7;

b.

Dalton;

- c. binds with IgE of patients sensitized to the protein; and
- d. contains the amino acid sequence or portions there of or minor variations of these amino acid sequence as shown below:

	AGALTLGFCFHFMEFPETNNNPIITLSFLLCMLSLAYASETCDFPAIFNF111	50
	GDSNSDTGGKAAAFYPLNPPYGETFFHRSTGRYSDGRLIIDFIAESFNLP	100
10	YLSPYLSSLGSNFKHGADFATAGSTIKLPTTIIPAHGGFSPFYLDVQYSQ111	150
	FRQFIPRSQFIRETGGIFAELVPEEYYFEKALYTFDIGQNDLTEGFLNLT	200
15	VEEVNATVPDLVNSFSANVKKIYDLGARTFWIHNTGPIGCLSFILTYFPW111	250
	AEKDSAGCAKAYNEVAQHFNHKLKEIVAQLRKDLPLATFVHVDIYSVKYS	300
	LFSEPEKHGFEFPLITCCGYGGKYNFSVTAPCGDTVTADDGTKIVVGSCA	350
20	CPSVRVNWDGAHYTEAANEYFFDQISTGAFSDPPVPLNMACHKTESLRTL	400
	ASV*VI*KCFAESPLIK*GIIINEKPLIMLGFTWFLS**SICCIYNSCMK	450
25	*FLVIKTCLSPVSL	

- A process for obtaining a protein or its molecular variant according to any one of Claims
 1 3 wherein the process comprises the following steps:
- 30 a) centrifuging the latex for obtaining the bottom fraction;
 - b) freeze-thawing the bottom fraction for obtaining the latex B-serum; and

- c) isolating and purifying the protein from the B-serum obtained in step (b).
- 5. A process for obtaining a protein or its molecular variant as claimed in Claim 4 wherein the isolation and purification of the protein are carried out via a series of chromatographic separations.

- 6. A process for obtaining a protein or its molecular variant as claimed in claim 5 wherein the chromatographic separation is ion exchange chromatography and gel filtration.
 - 7. A peptide that is derived from the protein as claimed in any one of claims 1 3 or prepared according to the process as claimed in any one of claims 4 6 wherein the peptide has similar allergenic properties as the protein as claimed in claims 1 3.
- 8. A DNA sequence encoding the protein or a portion of the protein as claimed in claim 1 wherein the DNA sequence or minor variations of this sequence is as shown below:
 - DNA: acgcggggcgttaacacttggtttttgcttccacttcatggagttccctg 51
- - DNA: ccctagcttatgcttccgaaacctgtgattttccagcaatctttaacttcg 153
 - DNA: gcgactccaattccgataccggtggcaaggcagctgccttttatcctctta 204

	DNA:	accetecttatggagagactttettteacaggtegacaggaaggtactetg	255
	DNA:	atggaaggctcataatagattttatcgccgagagtttcaatctcccatatc	306
5	DNA:	tgagtccatatcttagttccctgggaagcaacttcaaacatggtgcagatt	357
	DNA:	ttgccacagcaggatccaccattaaactaccaactactattatacctgctc	408
10	DNA:	atggtggatttagtccattctaccttgatgtccaatattcgcaattccggc-lllllll	459
	DNA:	aattcatacccagatcacagtttatcagggaaactggaggcatatttgctg	510
	DNA:	aattggtgcccgaggaatattattttgagaaagctttatacacattcgata	561
15	DNA:	ttggtcaaaatgatcttacagaaggattcttgaacttaactgtggaagaag	612
	DNA:	tgaatgcaactgtccctgatcttgtgaatagcttctcagcaaacgttaaga	663
20	DNA:	aaatatacgatttgggagctagaacattttggattcacaacacaggaccaa	714
	DNA:	ttggttgtctttcattcattttaacgtattttccctgggcagaaaaggata	765
	DNA:	gtgcaggctgtgcaaaagcttacaatgaagttgctcagcattttaatcacallll-	816
25	DNA:	agttgaaggagatcgttgctcaactcaggaaggatttgcctttagctacatlllllll	867
	DNA:	tcgtccacgttgacatctattctgtcaagtattctttattcagtgagccag	918
30	DNA:	aaaaacacggtttcgagtttccacttataacatgttgtggctacggaggaa	969
	DNA:	agtacaattttagtgttactgctccatgtggagatacagttacagcagacg lllll	1020
35	DNA:	acggtaccaaaatagttgtgggttcatgtgcttgcccttcagttcgagtaallll-	1071
	DNA:	attgggatggagctcactacactgaagctgccaatgaatattttttcgacc	1122
	DNA:	agatttctacaggagccttctctgatcccctgttccattgaatatggcat	1173

	DNA:	gtcataaaactgaatcattgaggacattagcctctgtataggttatatgaa 1224 -1llllll	
	DNA:	agtgctttgctgaaagcccgctaataaaatgaggaataataataaatgaga 1275	
5	DNA:	aaccattgattatgttaggattcacttggtttctatcataataatctatct	
	DNA:	gttgtatatacaacagttgtatgaaatagtttcttgtaataaagacttgtc 1377	
10	DNA:	tttctccggtttcccta 1394 11	
	9.	A method for the production of a protein or it molecular variant in recombinant form accordin to any one of claims 1 - 7 comprising the step	g
15		 of: a. inserting the DNA encoding the protein or variant of the protein into an appropriat vector; and b. inducing the vector to express a recombinan 	е
20		protein.	
	10.	A method for the production of a protein or its molecular variant in recombinant form as claimed in claim 9 wherein the DNA encoding the protein or a variant of the protein is as shown below:.	
25	DNA:	acgcgggggcgttaacacttggtttttgcttccacttcatggagttccctg 51	
	DNA:	aaaccaataacaaccctatcatcactctctttttttatta	
30	DNA:	ccctagcttatgcttccgaaacctgtgattttccagcaatctttaacttcg 153	
	DNA:	gcgactccaattccgataccggtggcaaggcagctgccttttatcctctta 204	
	DNA:	accetecttatggagagactttettteacaggtegacaggaaggtactetg 255	

	DNA:	tgagtccatatcttagttccctgggaagcaacttcaaacatggtgcagattllllll	357
	DNA:	ttgccacagcaggatccaccattaaactaccaactactattatacctgctc	408
5	DNA:	atggtggatttagtccattctaccttgatgtccaatattcgcaattccggc	459
	DNA:	aattcatacccagatcacagtttatcagggaaactggaggcatatttgctg	510
10	DNA:	aattggtgcccgaggaatattattttgagaaagctttatacacattcgata	561
	DNA:	ttggtcaaaatgatcttacagaaggattcttgaacttaactgtggaagaag	612
	DNA:	tgaatgcaactgtccctgatcttgtgaatagcttctcagcaaacgttaaga	663
15	DNA:	aaatatacgatttgggagctagaacattttggattcacaacacaggaccaa	714
	DNA:	ttggttgtctttcattcattttaacgtattttccctgggcagaaaaggata llll	765
20	DNA:	gtgcaggctgtgcaaaagcttacaatgaagttgctcagcattttaatcaca	816
	DNA:	agttgaaggagatcgttgctcaactcaggaaggatttgcctttagctacat	867
	DNA:	tcgtccacgttgacatctattctgtcaagtattctttattcagtgagccag	918
25	DNA:	aaaaacacggtttcgagtttccacttataacatgttgtggctacggaggaa	969
	DNA:	agtacaattttagtgttactgctccatgtggagatacagttacagcagacg	1020
30	DNA:	acggtaccaaaatagttgtgggttcatgtgcttgcccttcagttcgagtaa	107
	DNA:	attgggatggagctcactacactgaagctgccaatgaatattttttcgacc	1122
	DNA:	agatttctacaggagccttctctgatccccctgttccattgaatatggcat111111	117
35	DNA:	gtcataaaactgaatcattgaggacattagcctctgtataggttatatgaa	122
	DNA:	agtgctttgctgaaagcccgctaataaaatgaggaataataataaatgaga	127

- DNA: gttgtatatacaacagttgtatgaaatagtttcttgtaataaagacttgtc 1377
- 5 DNA: tttctccggtttcccta 1394
 - 11. A method for the production of a protein or its molecular variant in recombinant form as claimed in claim 9 or 10 wherein the vector is a microorganism, a plant or an animal.
- 10 12. A method for the production of a protein or its molecular variant in recombinant form as claimed in claim 11 wherein the micro-organism is a bacterium, a virus or a yeast.
- 13. A method for the production of a protein or its molecular variant in recombinant form as claimed in claim 12 wherein the bacterium is *Escherichia coli*.
- 14. A method for the production of a protein or its molecular variant in recombinant form as claimed in claim 9 wherein the inducer is preferably isopropyl thiogalactoside (IPTG) or any other suitable inducer.
- 15. A recombinant protein or its molecular variant in recombinant form produced according to the methods as claimed in any one of claims 9 14.

- 16. The use of native protein or its molecular variant as claimed in any one of claims 1-7 in immunoassay and immunotherapy.
- 17. The use of recombinant protein or its molecular variant in recombinant form as claimed in any one of claims 8 -15 in immunoassay and immunotherapy.